

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

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Applicant's or agent's file reference S 3527	FOR FURTHER see Notification of ACTION (Form PCT/ISA/22	Transmittal of International Search Report 20) as well as, where applicable, item 5 below.					
International application No.	International filing date (day month year)	(Earliest) Priority Date (day month year)					
PCT/SE 02/02401	19 December 2002	25 January 2002					
Applicant							
ALFA LAVAL CORPORATE AB ET AL							
applicant according to Article 18. A	been prepared by this International Search copy is being transmitted to the Internation	ing Authority and is transmitted to the nal Bureau.					
This international search report cons	ists of a total of 2 sheets.						
X It is also accompanied by	y a copy of each prior art document cited i	in this report.					
1. Basis of the report							
a. With regard to the language, the in the language in which it was	he international search was carried out on s filed, unless otherwise indicated under thi	the basis of the international application is item.					
the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).							
b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international search was carried out on the basis of the sequence listing:							
contained in the international application in written form.							
filed together with the international application in computer readable form.							
furnished subsequently to this Authority in written form.							
· · ·	this Authority in computer readable form						
the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.							
the statement that the inf	formation recorded in computer readable for it.	orm is identical to the written sequence					
2. Certain claims were foun	d unsearchable (See Box I).						
3. Unity of invention is lacking (See Box II).							
4. With regard to the title,		•					
the text is approved as su	abmitted by the applicant.						
the text has been establis	hed by this Authority to read as follows:	•					
5. With regard to the abstract,	when itted by the applicant						
1 1/21	ubmitted by the applicant. thed, according to Rule 38.2(b), by this Au	thority as it appears in Box III. The					
applicant may, within on comments to this Author	e month from the date of mailing of this in	nternational search report, submit					
	published with the abstract is Figure No						
as suggested by the applicant fail		None of the figures.					
because the applicant fai							
because this figure better characterizes the invention.							

A. CLASSIFICATION OF SUBJECT MATTER

IPC7: B04B 1/00, B04B 5/00, F01M 11/03, F01M 13/04 // B01D 45/12 According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7: B04B, F01M, B01D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

SE, DK, FI, NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

WPI DATA, PAJ, EPO-INTERNAL

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 9956883 A1 (ALFA LAVAL AB), 11 November 1999 (11.11.99), page 9, line 5 - page 12, line 25, figure 5, abstract	1-8
		
A	DE 19914166 A1 (DEUTZ AG), 5 October 2000 (05.10.00), figure 1, claim 7, abstract	1-8
		
P,A	EP 1217183 A1 (FILTERWERK MANN & HUMMEL GMBH), 26 June 2002 (26.06.02), abstract	1-8
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	Further documents are listed in the continuation of Box	C.	X See patent family annex.	
*	Special categories of cited documents:	"T"	later document published after the international filing date or priority	
"A"	document defining the general state of the art which is not considered to be of particular relevance		date and not in conflict with the application but cited to understand the principle or theory underlying the invention	
"E"	earlier application or patent but published on or after the international filing date	"X"	document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive	
"L"	document which may throw doubts on priority claim(s) or which is		step when the document is taken alone	
	cited to establish the publication date of another citation or other special reason (as specified)	"Y"	document of particular relevance: the claimed invention cannot be	
"O"	document referring to an oral disclosure, use, exhibition or other means		considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art	
"P"	document published prior to the international filing date but later than the priority date claimed		document member of the same patent family	
Date	e of the actual completion of the international search	Date	of mailing of the international search report	
7	March 2003		1 1 -03- 2003	
Name and mailing address of the ISA/		Authorized officer		
Swe	edish Patent Office			
Box 5055, S-102 42 STOCKHOLM		ULF NYSTRÖM/BS		
Facsimile No. +46 8 666 02 86		Telephone No. +46 8 782 25 00		
-orm	PCT/ISA/210 (second sheet) (July 1998)			

INTERNATION SEARCH REPORT Information on patent family members

30/12/02

Internal application No.
PCT/SE 02/02401

Patent document cited in search repor	t:t	Publication date		Patent family member(s)	Publication date
₩O 99568	83 A1	11/11/99	AU AU BR CN CN EP JP NO PL SE	4302199 A 4402299 A 9099898 A 9910188 A 1096889 B 1300240 T 1085945 A 2002513879 T 20005536 A 344361 A 9801567 D 9956882 A	23/11/99 23/11/99 29/03/99 02/01/01 25/12/02 20/06/01 28/03/01 14/05/02 02/11/00 05/11/01 00/00/00 11/11/99
DE 199141	.66 A	1 05/10/00	NONE		
EP 12171	.83 A	1 26/06/02	DE US	10063903 A 2002088445 A	04/07/02 11/07/02